

Claims

- [c1] A power apparatus having a built-in powerline networking adapter, comprising:
an electrical plug for being connected to a powerline networking; and
a body, comprising:
at least one electrical outlet electrically connected to the electrical plug; and
a networking adapter electrically connected to the electrical plug for performing a transformation between signals of the powerline networking and data packets.
- [c2] The power apparatus having a built-in powerline networking adapter in accordance with Claim 1, wherein the networking adapter comprises:
a transformer electrically connected to the electrical plug for decreasing voltages of the signals of the powerline networking;
an analog/digital converter for digitizing the voltage-decreased signals;
a powerline networking chipset for performing a transformation between the digitized signals and the data packets; and

at least one networking outlet for being in connection with at least one networking equipment and acting an interface for transferring the data packets.

- [c3] The power apparatus having a built-in powerline networking adapter in accordance with Claim 1, further comprising a cable whose two ends respectively connect to the electrical plug and the body for electrical conduction.
- [c4] The power apparatus having a built-in powerline networking adapter in accordance with Claim 1, wherein the powerline networking is a home powerline networking.
- [c5] The power apparatus having a built-in powerline networking adapter in accordance with Claim 2, wherein the networking outlet is of RJ45 type.
- [c6] The power apparatus having a built-in powerline networking adapter in accordance with Claim 2, further comprising an AC-to-DC regulator for transforming AC power of the powerline networking into DC power so as to provide power for the powerline networking chipset.
- [c7] The power apparatus having a built-in powerline networking adapter in accordance with Claim 2, further comprising a battery for providing DC power to the powerline networking chipset.

- [c8] The power apparatus having a built-in powerline networking adapter in accordance with Claim 2, wherein the networking adapter further comprises a chip of Ethernet Physical Layer.
- [c9] The power apparatus having a built-in powerline networking adapter in accordance with Claim 2, wherein the analog/digital converter is used to analogize output signals of the powerline networking chipset.
- [c10] The power apparatus having a built-in powerline networking adapter in accordance with Claim 2, wherein the transformer is used to raise voltages of the signals of the analog/digital converter.